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Patent Abstract

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GER 2001-04-05 19946874 **Diagnosis by Stellgliedern
and sensors of connection with the mixture formation
with Brennkraftmaschinen**
**ANNOTATED TITLE- Diagnose von Stellgliedern und
Sensoren in Verbindung mit der Gemischbildung bei
Brennkraftmaschinen**

INVENTOR- Langer, Winfried, Dr. 75428 Illingen DE

APPLICANT- Robert Bosch GmbH 70469 Stuttgart DE

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A procedure about the observation of causes is introduced to
formation of at least 3 load signals, which represent the air
quantity in each case, that streams into the combustion
motor, for mistakes in the formation of the
Kraftstoff/Luftgemisches for a combustion motor with the

Schritten:\$A - grasping different business parameter of the Verbrennungsmotors,\$A - on the basis of at least partially different Betriebsparameter,\$A - forming of different pairs of 2 Lastsignalen,\$A each - determining of deviations this 2 load signals each one pair among each other for different Paare,\$A - assigning of different causes to different combinations from pairs, in which deviations were determined.

EXEMPLARY CLAIMS- 1. Method about the observation of causes for mistakes in the formation of the Kraftstoff/Luftgemisches for a combustion motor with the steps:, Different business parameter of the combustion motor grasps, formation of at least 3 load signals, which represent the air quantity in each case, that streams into the combustion motor, of the basis of at least partially different business parameters - forming of different pairs of 2 load signals each - determining of deviations this 2 load signals each one pair among each other for different pair - assigning of different causes to different combinations from pairs, in which deviations were determined. 2. Method for claim 1, marked by it, that at least three of the following sizes are grasped as business parameters, signal of an air mass knife signal of a speed giver signal of a suction tube printed sensor, signal of an exhaust fume probe - signal of a fuel printed sensor. 3. Method for claim 1 or 2, marked by it, that - a first load signal rl, hfm on the basis of the signal of an air mass knife is formed - a second load signal rl, ps on the basis of a suction tube printed giver and a speed giver is formed and one - third load signal rl-rk on the basis of the Einspritzzeit, of the signal of a fuel printed sensor and the signal of an exhaust fume probe constructed:it becomes. 4. Method for one of the preceding claims, marked by it, that as different pair of 2 load signals each, one first pair from first and second load signal is constructed, a second pair from first and third load signal is constructed - a third pair from second and third load signal is formed. 5. Method for claim 3 and 4, marked by it, that with deviations in each pair of a combination from first, second and third pair a defective tank ventilation valve as mistake cause is assigned. 6. Method for claim 3 and 4, marked by it, that with deviations in the first and in the third pair of a combination from first, second and third pair a defective suction tube

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